



REPLACEMENT SHEET

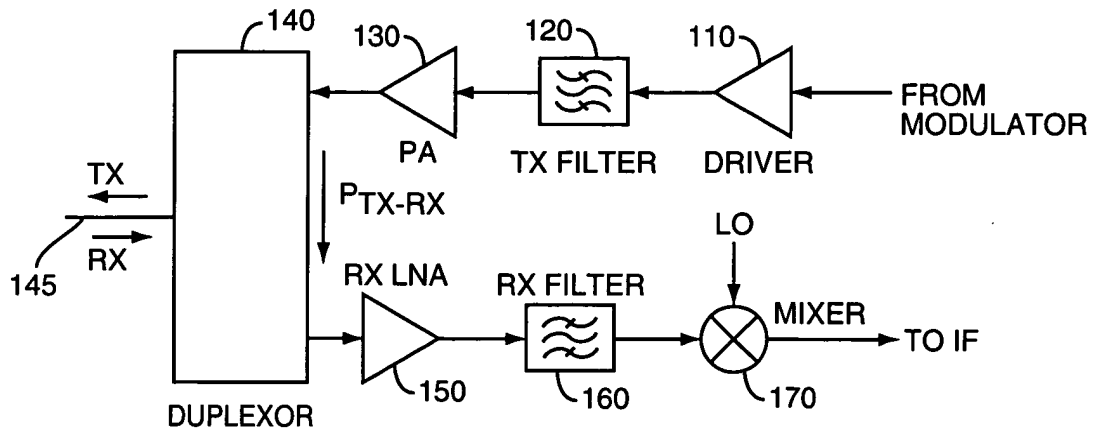


FIG. 1
PRIOR ART

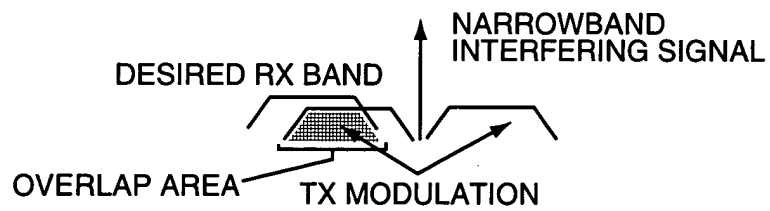


FIG. 2
PRIOR ART

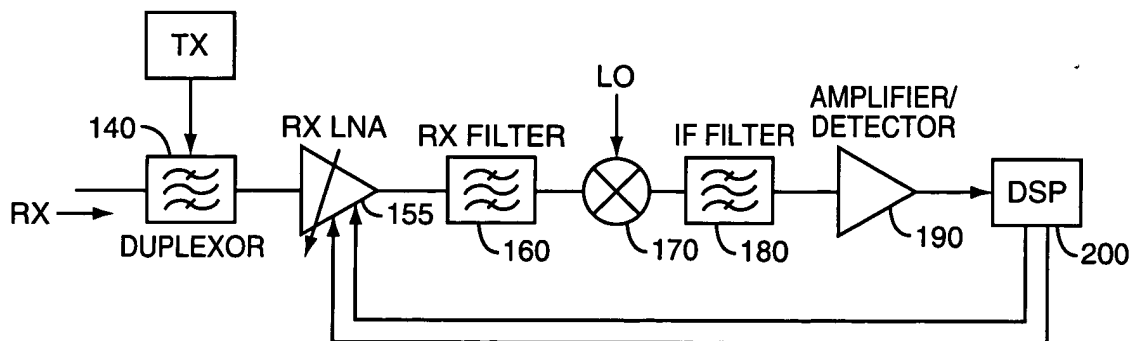


FIG. 3



REPLACEMENT SHEET

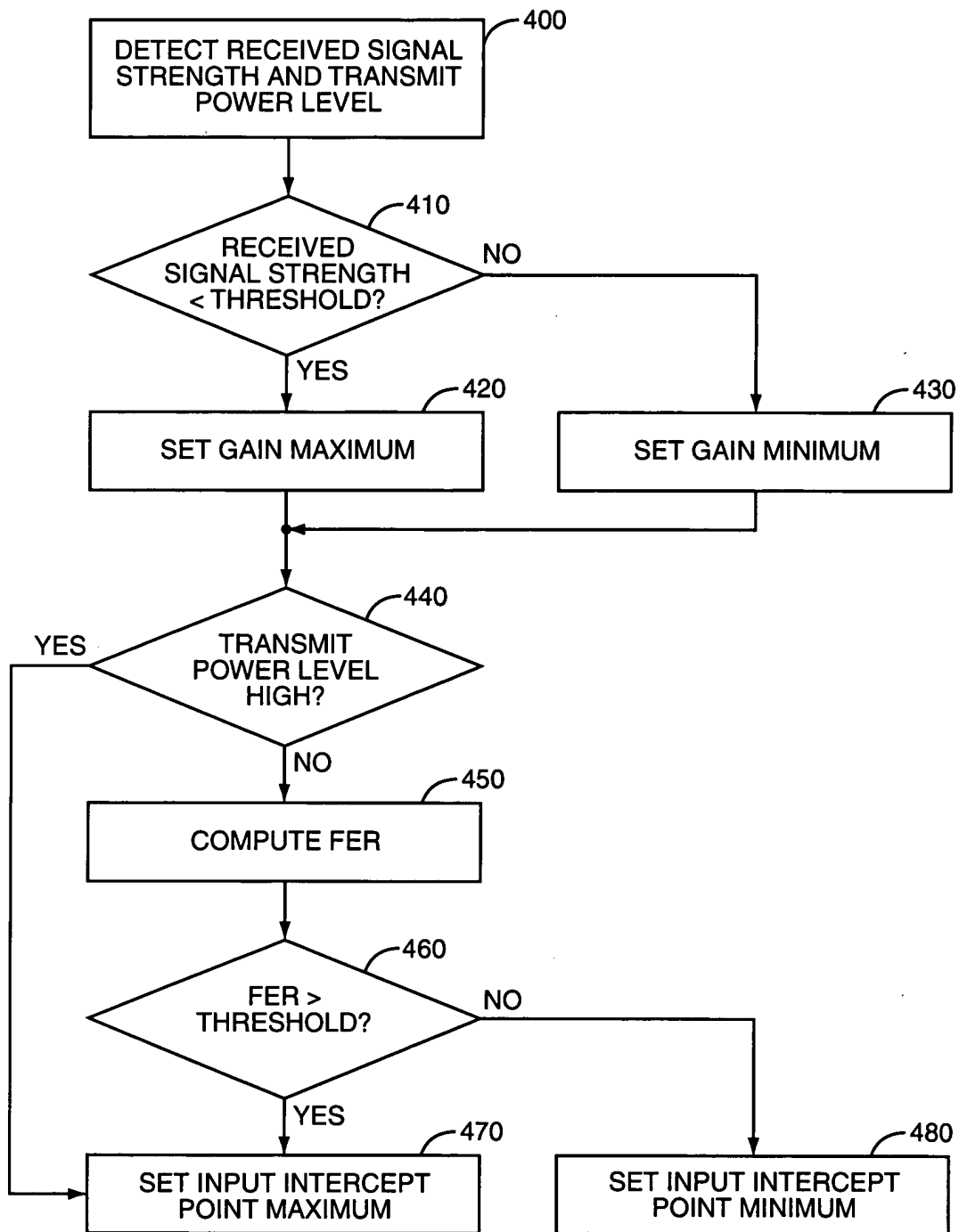


FIG. 4



REPLACEMENT SHEET

CDMA Receiver System Calculator

VERSION 1.10

TITLE:
Typical IS-95 CDMA Receiver, Operational State 1

DUPLEXOR

RX LNA

RX FILTER

MIXER

IF FILTER

G@ f0 in dB

G@ f1 in dB

G@ f2 in dB

IPi in dBm

NF in dB

-4.8

-4.8

-4.8

100

4.8

15

15

15

15

2

-3

-3

-3

100

3

15

15

15

3

7

-10

-45

-50

100

10

50

50

50

-40

5

Calculated System Parameters

System BW [kHz]

Eb/No Required [dB]

Processing Gain [dB]

Traffic Ch. Offset [dB]

1250

4.5

21.07

-15.60

System NF = 7.65 dB

System IPi = -5.00 dBm

Sensitivity = -106.32 dBm

System Gain = 62.2 dB

FIG. 5A



REPLACEMENT SHEET

CDMA Receiver System Calculator

VERSION 1.10

TITLE:

Typical IS-95 CDMA Receiver, Operational State 2

DUPLEXOR

RX LNA

RX FILTER

MIXER

IF FILTER

G@ f0 in dB	-4.8	15	-3	15	-10	50
G@ f1 in dB	-4.8	15	-3	15	-45	50
G@ f2 in dB	-4.8	15	-3	15	-50	50
IPI in dBm	100	5	100	3	100	-40
NF in dB	4.8	2	3	7	10	5

System BW [kHz]

1250

Eb/No Required [dB]

4.5

Processing Gain [dB]

21.07

Traffic Ch. Offset [dB]

-15.60

Calculated System Parameters

System NF = 7.65 dB

System IPI = -5.13 dBm

Sensitivity = -106.32 dBm

System Gain = 62.2 dB

FIG. 5B



REPLACEMENT SHEET

CDMA Receiver System Calculator

VERSION 1.10

TITLE:
Typical IS-95 CDMA Receiver, Operational State 3

DUPLEXOR

RX LNA

RX FILTER

MIXER

IF FILTER

G@ f0 in dB	-4.8	-5	-3	15	-10	50
G@ f1 in dB	-4.8	-5	-3	15	-45	50
G@ f2 in dB	-4.8	-5	-3	15	-50	50
IPi in dBm	100	5	100	3	100	-40
NF in dB	4.8	22	3	7	10	5

System BW [kHz]

Eb/No Required [dB]

Processing Gain [dB]

Traffic Ch. Offset [dB]

Calculated System Parameters

System NF = 27.6 dB

System IPi = 8.65 dBm

Sensitivity = -86.323 dBm

System Gain = 42.2 dB

FIG. 5C



REPLACEMENT SHEET

CDMA Receiver System Calculator

VERSION 1.10

TITLE:

Typical IS-95 CDMA Receiver, Operational State 4

DUPLEXOR

RX LNA

RX FILTER

MIXER

IF FILTER

G@ f0 in dB

G@ f1 in dB

G@ f2 in dB

IPI in dBm

NF in dB

-4.8

-4.8

-4.8

100

4.8

-5

-5

-5

15

22

-3

-3

-3

100

3

15

15

15

3

7

-10

-45

-50

100

10

50

50

50

-40

5

System BW [kHz]

1250

Eb/No Required [dB]

4.5

Processing Gain [dB]

21.07

Traffic Ch. Offset [dB]

-15.60

Calculated System Parameters

System NF = 27.6 dB

System IPI = 13.7 dBm

Sensitivity = -86.323 dBm

System Gain = 42.2 dB

FIG. 5D